

REMARKS

Applicant confirms the election made on February 27, 2003, and has accordingly cancelled claims 27-30.

DRAWINGS

The drawings are objected to because Figure 3 actually has two figures.

Applicant has submitted a new sheet with Figures 3A and 3B, as recommended by the Examiner.

35 U.S.C. § 112 Rejections

The Examiner has rejected claims 5, 15-18, 22, 25 and 26 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

The Examiner states that in claims 15 and 25 the "opening" is confusing and that it is clear in what member the opening is located.

Claims 15 and 25 have been amended to not include the opening.

Claims 16 and 26 are dependent on claims 15 and 25 respectively and should be allowable for the same reasons as claims 15 and 25.

The Examiner states that the "opening" of claim 18 is noted, however, asks where the opening is seen in the drawings.

Applicant respectfully submits that the opening in question is described in paragraph 0040 of the specification and is seen in Figure 8, marked with reference numeral 852.

Claims 5, 17, and 22 have been cancelled.

Applicant, accordingly, respectfully requests withdrawal of the rejections of claims 15, 16, 18, 25, and 26 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

35 U.S.C. § 102 Rejections

The Examiner has rejected claims 1, 2, 5, 8-12, 15 and 17 under 35 U.S.C. § 102(b) as being anticipated by either Prasanna or French reference 2803166.

Prasanna and French reference 2803166 do not disclose portions of an upper and lower heat dissipating device contacting to form a thermally conductive coupling member.

Prasanna, in this regard, discloses a memory cartridge 10. The memory cartridge 10 includes a memory card 12, an upper thermally conductive cover 14, and a lower thermally conductive cover 16. (Column 2, lines 51-53) The memory card includes a substrate 18, an upper set of memory dies 20, and a lower set of memory dies 22. (Column 2, lines 60-62) The substrate may include a metal layer 64 which serves as a ground for the memory dies 20 and 22. (Column 5, lines 11-13)

Metal plug vias 66 are formed in the substrate, each being in contact with the metal layer 64 (Column 5, lines 16-19). Each thermally conductive cover 14 and 16 is in contact with a respective contact pad 68 and electrically connected to the metal layer 64 (Column 5, lines 22-24). Specifically, Prasanna does not disclose portions of an upper and lower heat dissipating device contacting to form a thermally conductive coupling member.

Applicant has discovered that the invention of French reference 2803166 is described in U. S. Patent Application No. US 2002/0172010 and has used the U. S. application in preparing this response. Applicant believes the U. S. application is cumulative with French reference 2803166 and, therefore, is not submitting an IDS for this piece of prior art.

French reference 2803166, in this regard, discloses an electronic module 2e comprising two covers 18 and 19 with a printed circuit board 15 placed in a space between the two covers 18 and 19 (Paragraph 0010 of U.S. Patent Application No. US 2002/0172010). The printed circuit board 15 includes at least one component 22. (Paragraph 0011). Ends of the covers 18 and 19 are placed within slideways 9 and 9a, to which heat is conducted (Paragraph 0014). French reference 2803166 thus also fails to disclose portions of an upper and lower heat dissipating device contacting to form a thermally conductive coupling member.

Claim 1 has been amended to include portions of an upper and lower heat dissipating device contacting to form a thermally conductive coupling member.

Specifically, claim 1 includes the limitation, "a bottom heat dissipating device, having a bottom coupling portion...; and a top heat dissipating device, having a top coupling portion...the top coupling portion contacting the bottom coupling portion, the bottom and top coupling portions jointly forming a thermally conductive coupling member being thermally coupled with the bottom and top heat dissipating devices."

Therefore, claim 1 is not anticipated by Prasanna or French reference 2803166 because claim 1 includes a limitation not disclosed in either Prasanna or French reference 2803166.

Claims 2, 8-12, and 15, are dependent on claim 1 and should be allowable for the same reasons as claim 1.

Claims 5 and 17 have been cancelled.

Applicant, accordingly, respectfully requests withdrawal of the rejections of claims 1, 2, 8-12, and 15 under 35 U.S.C. § 102(e) as being anticipated by either Prasanna or French reference 2803166.

35 U.S.C. § 103 Rejections

The Examiner has rejected claims 13, 19, and 22 under 35 U.S.C. § 103(a) as being unpatentable over either Prasanna or the French reference 2803166.

Claims 13 and 19, are dependent on claim 1 and should be allowable for the same reasons as claim 1.

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Application No.: 10/079,181*

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*Examiner: Gerald P. TOLIN
Art Unit: 2835*

Claim 22 has been cancelled.

Applicant, accordingly, respectfully requests withdrawal of the rejections of claims 13 and 19 under 35 U.S.C. § 103(a) as being unpatentable over either Prasanna or French reference 2803166.

ALLOWABLE CLAIMS

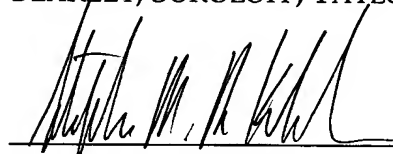
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Applicant has noted that the Examiner indicated that claims 3, 4, 6, 7, 14, 20, 21, 23, and 24 are objected to and is assuming, with appreciation, that those claims contain allowable subject matter if rewritten in independent form to include all the limitations of the base claim and any intervening claims. In view of these amendments, applicant respectfully submits that claims 1-4, 6-16, ¹⁸⁻²¹~~8-21~~, and 23-26 are now in condition for allowance and requests allowance of said claims.

Applicant respectfully submits that the present application is in condition for allowance. If the Examiner believes a telephone conference would expedite or assist in the allowance of the present application, the Examiner is invited to call Stephen M. De Klerk at (408) 720-8300.

Please charge any shortages and credit any overages to Deposit Account No. 02-2666. Any necessary extension of time for response not already requested is hereby requested. Please charge any corresponding fee to Deposit Account No. 02-2666.

Respectfully submitted,

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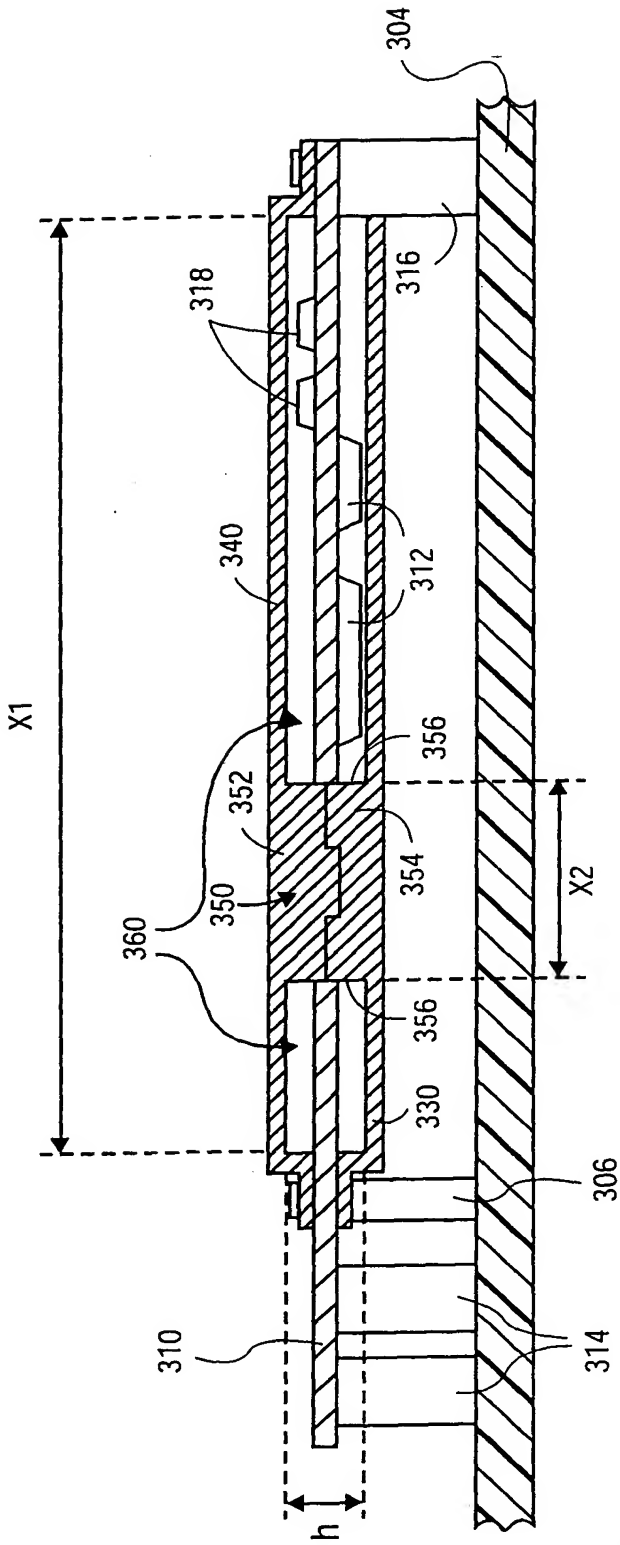


FIG. 3A

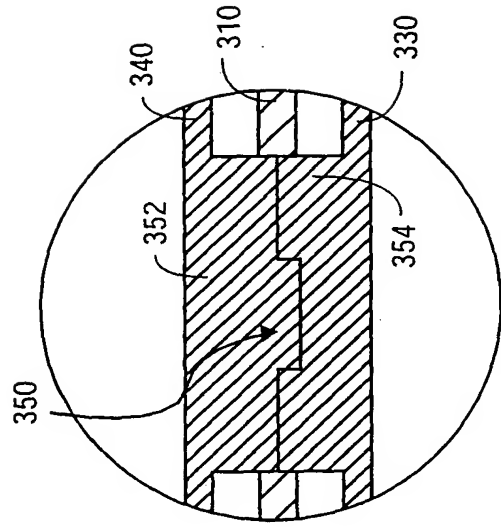


FIG. 3B